LJH Locality List Summer, 2000

SERIES		GROUP	SUB-GROUP	FORMATION	MEMBER	K-Ar AGE (m.y)	MAGNETIC POLARITY	
MIOCENE	UPPER	COLUMBIA RIVER BASALT GROUP	YAKIMA BASALT SUBGROUP	SADDLE MOUNTAINS BASALT	LOWER MONUMENTAL MEMBER	6	N	
					EROSIONAL UNCONFORMITY			
					ICE HARBOR MEMBER Basalt of Goose Island Basalt of Martindale Basalt of Basin City	8.5	N R N	
					EROSIONAL UNCONFORMITY			
					BUFORD MEMBER		R	
	MIDDLE				ELEPHANT MOUNTAIN MEMBER	10.5	R, T	
					EROSIONAL UNCONFORMITY			
					POMONA MEMBER	12	R	
					EROSIONAL UNCONFORMITY			
					ESQUATZEL MEMBER		N	
					EROSIONAL UNCONFORMITY			
					WEISSENFELS RIDGE MEMBER Basalt of Slippery Creek Basalt of Tenmile Creek Basalt of Lewiston Orchards Basalt of Cloverland		N N N N	
					ASOTIN MEMBER Basalt of Huntzinger	13	N	
					LOCAL EROSIONAL UNCONFORMITY			
					WILBUR CREEK MEMBER Basalt of Lapwai Basalt of Wahluke		N N	
					UMATILLA MEMBER Basalt of Sillusi Basalt of Umatilla		N N	
					LOCAL EROSIONAL UNCONFORMITY			
				WANAPUM BASALT	PRIEST RAPIDS MEMBER Basalt of Lolo ← Basalt of Rosalia	14.5 150	R R	← Emerald Creek
					ROZA MEMBER		T, R	
					FRENCHMAN SPRINGS MEMBER Basalt of Lyons Ferry Basalt of Sentinel Gap Basalt of Sand Hollow Basalt of Silver Falls Basalt of Ginkgo Basalt of Palouse Falls	15.3 15.5	N N N N, E E E	
					ECKLER MOUNTAIN MEMBER Basalt of Shumaker Creek Basalt of Dodge Basalt of Robinette Mountain		N N N	
	LOWER			GRANDE RONDE BASALT	(See Mangan and others, 1986; Reidel, 1983 for individual flows)	15.6-16.5	N_2	
				PICTURE GORGE BASALT			R_2	
							N_1	
							R_1	} Musselshell
				IMNAHA BASALT	(See Hooper and others, 1984)	16.5-17.0	R_1 T N_0 R_0	← Julietta

Figure 2. Stratigraphy of the Columbia River Basalt Group. Modified from Swanson and others (1979) by Reidel and Fecht (1987). Natural remanent magnetization indicated by: N=normal, R=reversed, T=transitional, and E=excursional.

cf. Reidel, S.P. and Fecht, K.R. 1986. The Huntziger Flow: evidence of surface mixing of the Columbia River Basalt and its petrogenetic implications. Geol. Soc. Amer. Bull. 98:664-677.

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					EROSIONAL UNCONFORMITY			
					ICE HARBOR MEMBER Basalt of Goose Island Basalt of Martindale Basalt of Basin City	8.5	N R N	
					EROSIONAL UNCONFORMITY			
					BUFORD MEMBER		R	
					ELEPHANT MOUNTAIN MEMBER	10.5	R, T	
	MIDDLE				*EROSIONAL UNCONFORMITY*			
					POMONA MEMBER	12	R	
					EROSIONAL UNCONFORMITY			
					ESQUATZEL MEMBER		N	
					EROSIONAL UNCONFORMITY			
					WEISSENFELS RIDGE MEMBER Basalt of Slippery Creek Basalt of Tenmile Creek Basalt of Lewiston Orchards Basalt of Cloverland		N N N N	
					ASOTIN MEMBER Basalt of Huntzinger	13	N	
					LOCAL EROSIONAL UNCONFORMITY			
					WILBUR CREEK MEMBER Basalt of Lapwai Basalt of Wahluke		N N	
					UMATILLA MEMBER Basalt of Sillusi Basalt of Umatilla		N N	
					LOCAL EROSIONAL UNCONFORMITY			
				WANAPUM BASALT	PRIEST RAPIDS MEMBER Basalt of Lolo ← Basalt of Rosalia	14.5 c50	R R	← Emerald Creek
					ROZA MEMBER		T, R	
					FRENCHMAN SPRINGS MEMBER Basalt of Lyons Ferry Basalt of Sentinel Gap Basalt of Sand Hollow Basalt of Silver Falls Basalt of Ginkgo Basalt of Palouse Falls	15.3 15.5	N N N N, E E E	
					ECKLER MOUNTAIN MEMBER Basalt of Shumaker Creek Basalt of Dodge Basalt of Robinette Mountain		N N N	
	LOWER			GRANDE RONDE BASALT	(See Mangan and others, 1986; Reidel, 1983 for individual flows)	15.6-16.5	N_2	
							R_2	
				PICTURE GORGE BASALT			N_1	
							R_1	} Musselshell
				IMNAHA BASALT	(See Hooper and others, 1984)	16.5-17.0	R_1 T N_0 R_0	← Julietta

Figure 2. Stratigraphy of the Columbia River Basalt Group. Modified from Swanson and others (1979) by Reidel and Fecht (1987). Natural remanent magnetization indicated by: N=normal, R=reversed, T=transitional, and E=excursional.

cf. Reidel, S.P. and Fecht, K.R. 1986. The Huntziger Flow: evidence of surface mixing of the Columbia River Basalt and its petrogenetic implications. Geol. Soc. Amer. Bull. 98: 664-677.

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					EROSIONAL UNCONFORMITY		
					BUFORD MEMBER		R
					ELEPHANT MOUNTAIN MEMBER	10.5	R, T
	MIDDLE				*EROSIONAL UNCONFORMITY*		
					POMONA MEMBER	12	R
					EROSIONAL UNCONFORMITY		
					ESQUATZEL MEMBER		N
					EROSIONAL UNCONFORMITY		
					WEISSENFELS RIDGE MEMBER Basalt of Slippery Creek Basalt of Tenmile Creek Basalt of Lewiston Orchards Basalt of Cloverland		N N N N
					ASOTIN MEMBER Basalt of Huntzinger	13	N
					LOCAL EROSIONAL UNCONFORMITY		
					WILBUH CREEK MEMBER Basalt of Lapwai Basalt of Wahluke		N N
					UMATILLA MEMBER Basalt of Sillusi Basalt of Umatilla		N N
					LOCAL EROSIONAL UNCONFORMITY		
				WANAPUM BASALT	PRIEST RAPIDS MEMBER Basalt of Lolo ← Basalt of Rosalia	14.5 150	R R ← Gmarrald Creek
					ROZA MEMBER		T, R
					FRENCHMAN SPRINGS MEMBER Basalt of Lyons Ferry Basalt of Sentinel Gap Basalt of Sand Hollow Basalt of Silver Falls Basalt of Ginkgo Basalt of Palouse Falls	15.3 15.5	N N N N, E E E
					ECKLER MOUNTAIN MEMBER Basalt of Shumaker Creek Basalt of Dodge Basalt of Robinette Mountain		N N N
	LOWER			GRANDE RONDE BASALT	(See Mangan and others, 1986; Reidel, 1983 for individual flows)	15.6-16.5	N_2
							R_2
				PICTURE GORGE BASALT			N_1
							R_1 } Musselshell
				IMNAHA BASALT	(See Hooper and others, 1984)	16.5-17.0	← Julietta R_1 T N_0 R_0

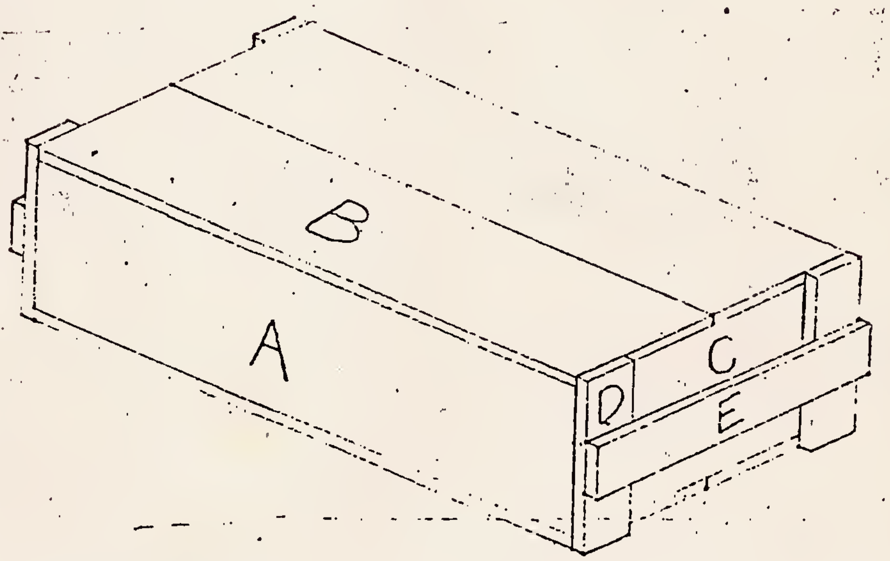
Figure 2. Stratigraphy of the Columbia River Basalt Group. Modified from Swanson and others (1979) by Reidel and Fecht (1987). Natural remanent magnetization indicated by: N=normal, R=reversed, T=transitional, and E=excursional.

cf. Reidel, S.P. and Fecht, K.R. 1986. The Huntziger Flow: evidence of surface mixing of the Columbia River Basalt and its petrogenetic implications. Geol. Soc. Amer. Bull. 98: 664-677.

Field Trip #9

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C. 20560

3/5



2 skids underneath each box.

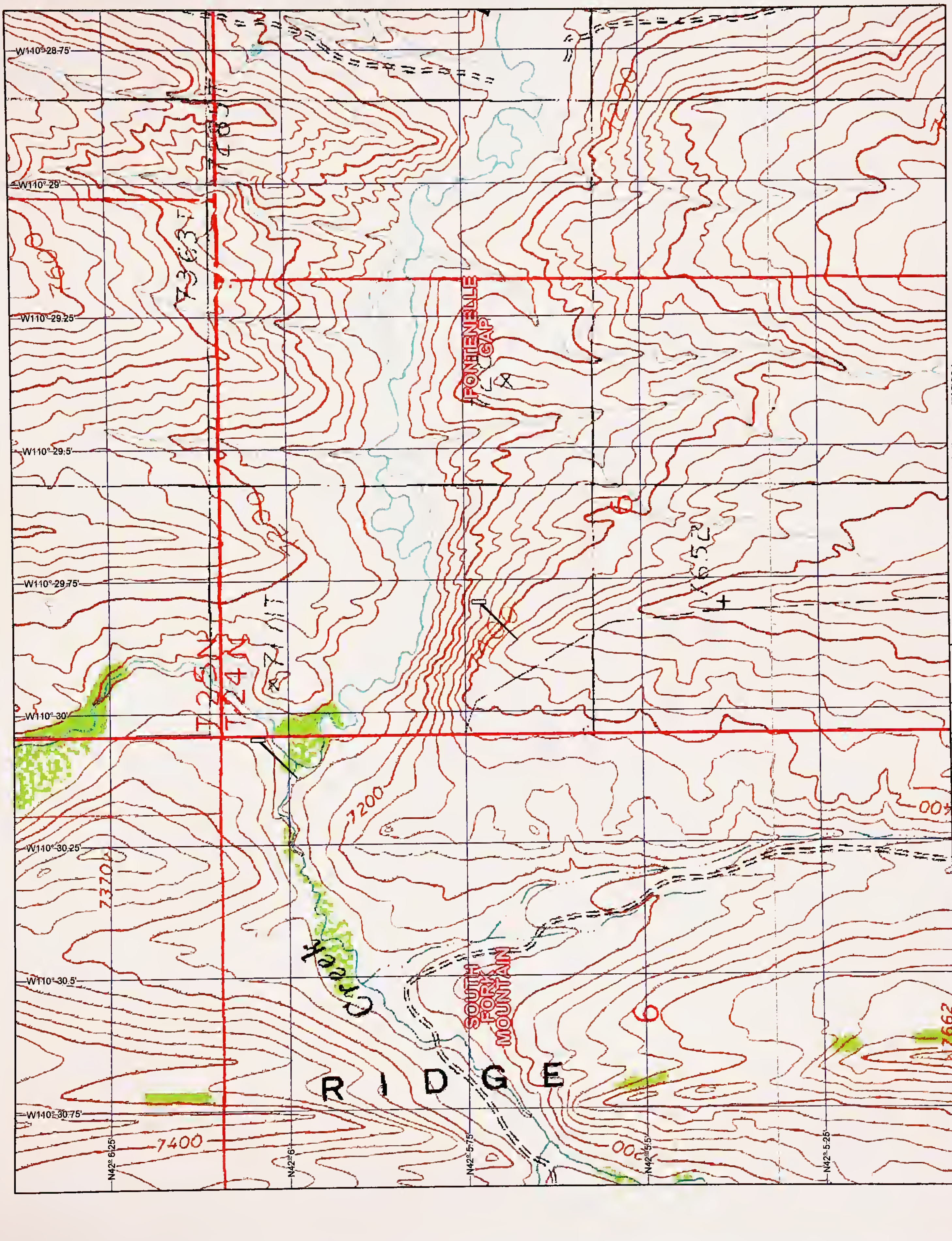
Board sizes

A = 36 × W × 1
B = 36 × W × 1 } 6 each
C = 2W-1½ × W × 1 } 2 each
D = W+1½ × 3 × 1 } 4 each
E = 2W × 3 × 1 } 2 each

2¼" galvanized nails - 5 lbs. for 6 boxes

Board Sizes

A,B = 36 × 11¼ × 1 6 each
C = 21 × 11¼ × 1 2 each
D = 12½ × 3 × 1 4 each
E = 22½ × 3 × 1 2 each



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 500 ft Scale: 1 : 12,800 Detail: 14-0 Datum: WGS84

3/3

LINDA -

I FOUND IN SOME OLD NOTES THAT THE LOCAL NAME FOR THE QUARRY NEAR UTAH LAKE WHERE THE CARBONIFEROUS PLANTS WERE COLLECTED IS:

"MANNING CANYON".

I HOPE THIS IS HELPFUL.

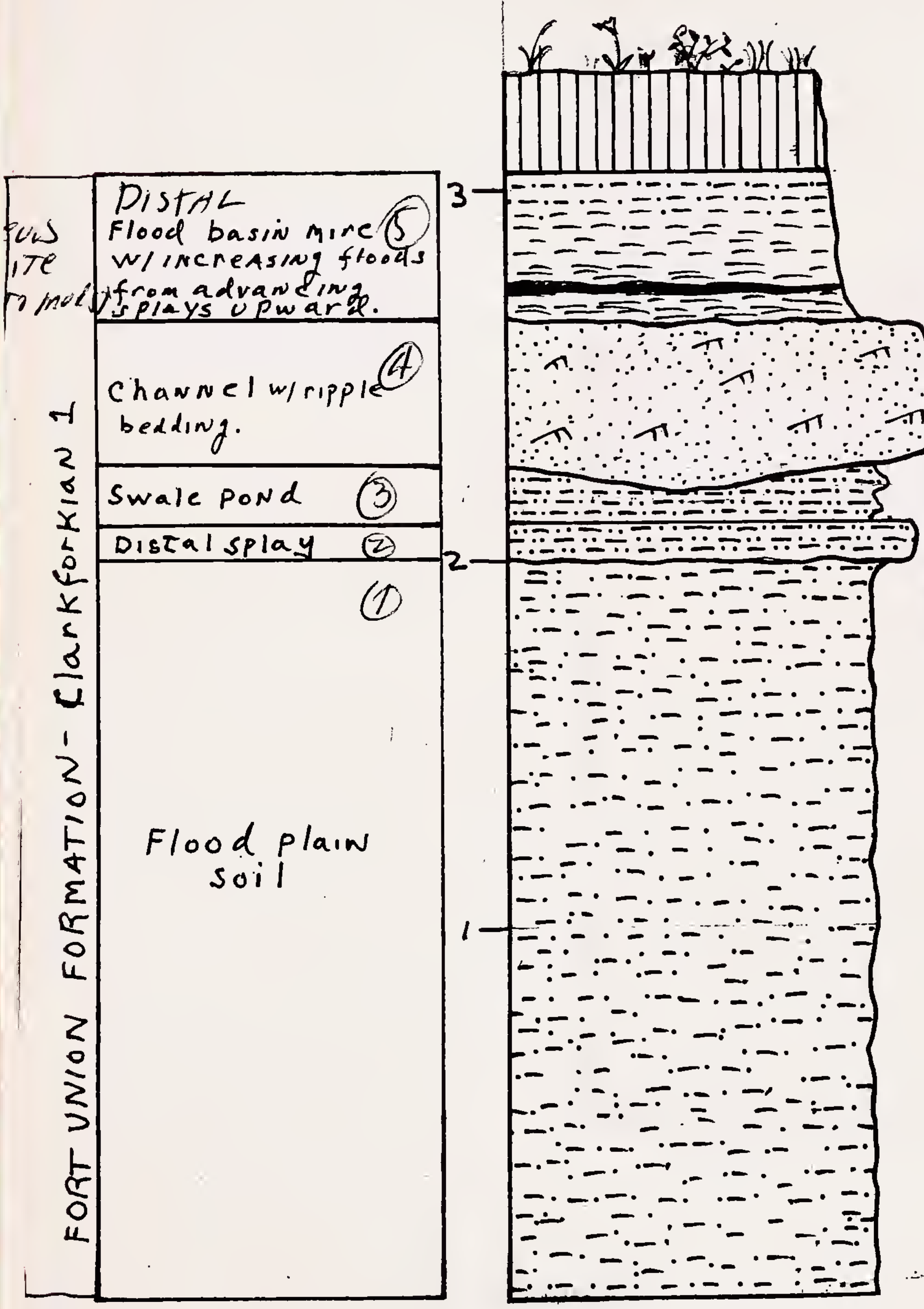
B.R.

CARBONIFEROUS
(MISSISSIPPIAN ?)
PLANT FOSSILS

COMMERCIAL CLAY PITS
WEST SIDE OF UTAH LAKE
NEAR AMERICAN FORK,
UTAH

COLLECTED IN 1982 WITH
BROOKS BRITT OF B.Y.U.
(LATER OF THE MUSEUM OF
WESTERN COLORADO)

LOC. 008 CHANCE GINKGO SITE



Covered

Carbonaceous shale with a thin lignite near the base, grading upward to a mudstone

④ Sandstone, very fine grained ripple laminated.

③ Mudstone / siltstone interbeds ~~finely~~ thinly laminated w/ vert, incl *

② Siltstone **

① Mudstone, tan to dark grey, massive blocky.

③ * Comminuted plant fragments

② ** laminated and ripple laminated ~~in~~ w/ plant fragments and leaves in upper 1/2 and ~~roots~~ worm trails in basal 1/2.

- Mention ~~sets~~ molecular rels of ginkgo

Disturbance in Dong Fei

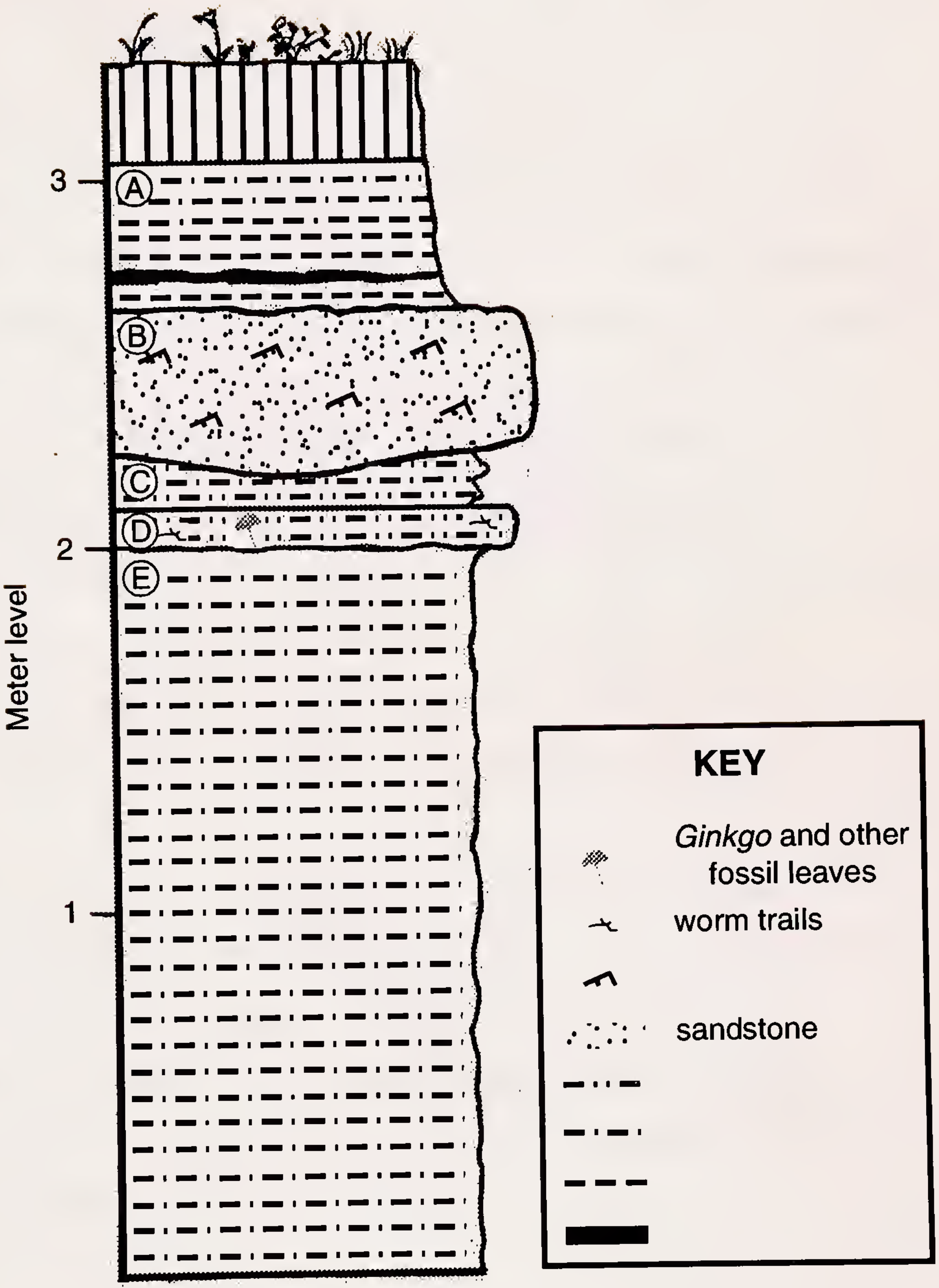

3
2
1
Meter level
A
B
C
D
E
KEY
Ginkgo and other fossil leaves
worm trails
sandstone

Fig. 6

The fossil ginkgo leaves at the Clarno site are found in the upper ~~1/3~~ half of a 10 cm thick interbedded mudstone/siltstone unit that appears to represent the distal portion of a crevasse splay deposit that was deposited on a very poorly developed flood basin mudstone. ~~[illegible]~~ The ginkgo leaves occur with Nordenskioldia, Zizyphoides flabella Platanus cf. raynoldsii, Acer silberlingii, and Hardiaphyllum daturaefolia, ~~and~~. Deposition in the laminated sediments of a splay indicate the flora has been subjected to some transport, in this case from the adjacent slopes of a levee.

Following deposition of the ginkgo-bearing splay siltstone the area became a shallow pond before being invaded by a channel ~~with a subsequent~~ that ~~was~~ in turn gave way to distal flood basin sediment.

Metasequoia vs Glyptostrobus

7861 Grimy Gulch Crevasse splay
Meta / Gly. 0/146

7425 Bobcat Pass Sltst.
M/G 65 / 32

6721 Deep Underswamp siderite Conc. at Bear Cr.
M/G 239/73

72104 Smith Mine Coarse seds opp. conc. site
M/G 9 / 2

7134 Doublemill Hill Distal splay
M/G 215/62

6722 Sandstone at Foster Gulch
Meta /G 2/0

7870 Lower Loc. at Stratotype below Belfry lake SS
M/G 0/10

7871 Scott Wing Loc. Lower Clark Shale
M/G 201/0

7872 Upper Badger Basin Loc. Fissile lignite sh
M/G 36/0

7678 Hunters Cr. Ss. si a ss.

M/G 0/5

7675 Hunters Cr. #1 Ss. channel
M/G 0/3

7652 Bobcat Pass - Siderite bands.
M/G 1/0

7650 Scorpion Hollow Siltst.
M/G 34/0

72104 Smith Mine Cut - Coarse ss. opposite conc. site
M/G 9/0

7423 Ginkgo site near Bobcat Pass
M/G 17/0

7153 Foster Gulch - Ss. ledge (channel)
M/G 1/1

7130b Foster gulch - Sandy to muddy
M/G 6/1

72103 Damn boulder site
M/G 7/3

72105 n of Damn Boulder site V.F. G sandy
M/G 5/11

72116 Tiger Gulch V fg ss
m/6 16/8

72143 Horse Valley in Dry Creek sid. nodules
m/6 0/16

72122 Upper Lebo ~~m~~
m/6 8/178

72124 Fine Yellow Tip Fine & grit micac. ss.
m/6 5/2

72118 Channel ss. Overbank
m/6 7/3

7141 The RR Bridge
Base Fluvial ss. vfg ss
m/6 8/30

7143 Polecat Bench
m/6 19/0

72126 Polecat Bench mudstone
m/6 34/62

7627 Badger Basin #1
m/6 40/1

72127 Black Meadow Gulch marly sltst
M/G 5/1

~~74191~~
14191 [illegible] summit

72128 Lower Fluvial Healy Dry Cr. Valley.
M/G 3r

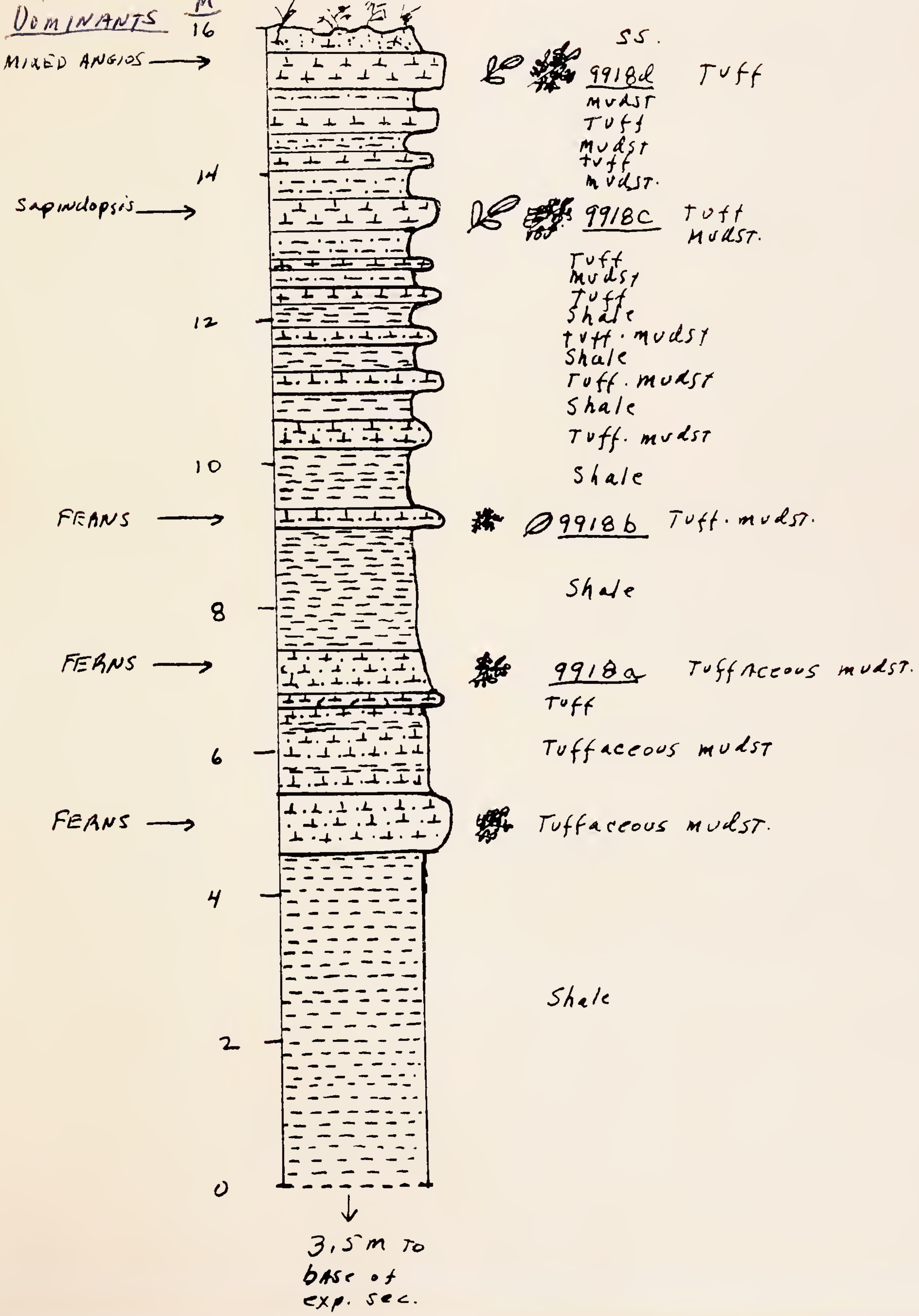
6723 Tllma Churchill Lz. Loc.
M/G 28/0

72141 a Ft Powell Dump
M/G 13/28

7634 Highest CF leaf loc. Channel cut fill
M/G 0/1

7635 Sand Coulee #1 Grey sh.
M/G 2/11

ASPEN SH. PLANT
BEDS ON FONTINELLE CR.
LOC. 9918



LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

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Waypoint	LJH Loc. #	Date	Name (If Any)	Type of Loc.	Position	Altitude	Stratigraphic Unit	Period/Epoch	Stage	Legal Description	Quadrangle	City/Town	County	State	Country	Remarks
7	0001	07/15/2000	Grimy Gulch	Fossil Plant	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
8	0002	07/15/2000		Carb. Shale	N44 52 15.3 W108 43 58.6	5053 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NW1 T56N R99W	Garland 7.5'		Park	WY	USA	Carb Sh. w/ poor fossil plants
9	0003	07/15/2000		Field Point	N44 51 40.8 W108 44 42.0	5008 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On traverse across ponded beds
10	0004	07/15/2000		Field Point	N44 51 38.9 W108 44 45.2	5027 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	Rusty micrite
11	0005	07/15/2000		Field Point	N44 51 37.9 W108 44 49.3	5072 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On ridge crest w/rusty micrite
12	0007	07/15/2000	Debeya site	Fossil Plant	N44 56 57.5 W108 52 22.2	4619 ft	Fort Union Fm. (HC)	Paleocene	Puercan	C1 T57N R100W	Elk Basin 7.5'		Park	WY	USA	Old loc. 7659 & 7868
15		07/16/2000	Green Bug Reservoir loc.	Fossil Plant	N43 56 45.0 W107 33 50.3	4963 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE19 T46N R89W	Castle Gardens 7.5'		Washakie	WY	USA	A Scott Wing locality
16		07/16/2000	Oil Field locality	Fossil Plant	N44 02 53.9 W107 46 02.1	4418 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE16 T47N R91W	Worland SE 7.5'		Washakie	WY	USA	A Scott Wing locality
21	0008	07/17/2000	Chance locality	Fossil Plant	N45 02 00.1 W109 04 53.1	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc 7132
	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE12 T9S R23E	Hunters Creek 7.5'		Carbon	MT	USA	Old locs. 72135, 7649, 7423
24		07/19/2000	William Rember home	House	N47 01 56.8 W116 20 16.1	2818 ft				NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
	0011b	07/20/2000	Emerald Creek #2	Fossil Plant	N47 01 59.3 W116 20 19.2	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
26	0012	07/20/2000	Juliaetta locality	Fossil Plant	N46 31 17.5 W116 44 53.7	963 ft	Latah Fm.	Miocene	16.5 ma		Green Knob 7.5		Latah	ID	USA	Univ. of Idaho Paleobotany loc. P-6
27	0011c	07/21/2000	Emerald Creek #3	Fossil Plant	N47 01 58.5 W116 20 18.5	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
28		07/21/2000	Hobo Cedar Grove	Botanical	N47 05 09.0 W116 06 46.9	4455 ft					Grandmother Mt. 7.5'		Shoshone	ID	USA	Virgin Forest
29	0013	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 30.9 W116 16 28.6	2896 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33b
30	0013b	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.3 W116 16 33.9	2895 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33a
31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft				N15 T42N R1E	Clarkia 7.5'		Shoshone	ID	USA	
34	0014	07/25/2000		Viewpoint	N45 08 04.1 W109 03 36.5	4342 ft	Fort Union Fm.	Paleocene		SW17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
36	0015	07/25/2000		Field Point	N45 08 31.2 W109 04 07.2	4194 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
37	0016a	07/26/2000	Millenium Notch Section	Field Point	N45 08 41.7 W109 03 49.2	4187 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
38	0016b	07/26/2000	Millenium Notch Section	Field Point	N45 08 45.6 W109 03 50.2	4324 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary	Maestr.-Puercan	SE31 T57N R98W	Garland 7.5'		Park	WY	USA	Old loc 7862
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
43	0020	07/29/2000		Vert. Loc.	N44 59 41.3 W108 56 49.2	4389 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	CWB21 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	Start of stratigraphic traverse
44	0021	07/29/2000	Time Warp Gulch	Field Point	N44 59 30.1 W108 57 14.7	4518 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	C20 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	End of stratigraphic traverse
46	0022	07/29/2000	Sand Coulee Prospect	Viewpoint	N45 00 17.0 W109 01 54.1	4484 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	
	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Stratigraphic traverse
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Base of section
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc. 8029
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft				CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Vehicle parking place
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous	Albian	CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Old loc. 9918; suffixed a,b,c
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'	Chance	Carbon	MT	USA	
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene	(15 ma)	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	Univ. of Idaho Paleobotany loc. P-37
FONTINELLE	0027	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous	Albian	NE6 T24N R115W	Fontinelle Gap 7.5'		Lincoln	WY	USA	
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft						Kemmerer	Lincoln	WY	USA	

LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

Waypoint	LJH Loc. #	Date	Name (If Any)	Type of Loc.	Position	Altitude	Stratigraphic Unit	Period/Epoch	Stage	Legal Description	Quadrangle	City/Town	County	State	Country	Remarks
7	0001	07/15/2000	Grimy Gulch	Fossil Plant	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
8	0002	07/15/2000		Carb. Shale	N44 52 15.3 W108 43 58.6	5053 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NW1 T56N R99W	Garland 7.5'		Park	WY	USA	Carb Sh. w/ poor fossil plants
9	0003	07/15/2000		Field Point	N44 51 40.8 W108 44 42.0	5008 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On traverse across ponded beds
10	0004	07/15/2000		Field Point	N44 51 38.9 W108 44 45.2	5027 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	Rusty micrite
11	0005	07/15/2000		Field Point	N44 51 37.9 W108 44 49.3	5072 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On ridge crest w/rusty micrite
12	0007	07/15/2000	Debeya site	Fossil Plant	N44 56 57.5 W108 52 22.2	4619 ft	Fort Union Fm. (HC)	Paleocene	Puercan	C1 T57N R100W	Elk Basin 7.5'		Park	WY	USA	Old loc. 7659 & 7868
15		07/16/2000	Green Bug Reservoir loc.	Fossil Plant	N43 56 45.0 W107 33 50.3	4963 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE19 T46N R89W	Castle Gardens 7.5'		Washakie	WY	USA	A Scott Wing locality
16		07/16/2000	Oil Field locality	Fossil Plant	N44 02 53.9 W107 46 02.1	4418 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE16 T47N R91W	Worland SE 7.5'		Washakie	WY	USA	A Scott Wing locality
21	0008	07/17/2000	Chance locality	Fossil Plant	N45 02 00.1 W109 04 53.1	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc 7132
	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE12 T9S R23E	Hunters Creek 7.5'		Carbon	MT	USA	Old locs 72135, 7649, 7423
24		07/19/2000	William Rember home	House	N47 01 56.8 W116 20 16.1	2818 ft				NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
	0011b	07/20/2000	Emerald Creek #2	Fossil Plant	N47 01 59.3 W116 20 19.2	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
26	0012	07/20/2000	Juliaetta locality	Fossil Plant	N46 31 17.5 W116 44 53.7	963 ft	Latah Fm.	Miocene	16.5 ma		Green Knob 7.5		Latah	ID	USA	Univ. of Idaho Paleobotany loc. P-6
27	0011c	07/21/2000	Emerald Creek #3	Fossil Plant	N47 01 58.5 W116 20 18.5	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
28		07/21/2000	Hobo Cedar Grove	Botanical	N47 05 09.0 W116 06 46.9	4455 ft					Grandmother Mt. 7.5'		Shoshone	ID	USA	Virgin Forest
29	0013	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 30.9 W116 16 28.6	2896 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33b
30	0013b	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.3 W116 16 33.9	2895 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33a
31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft				N15 T42N R1E	Clarkia 7.5'		Shoshone	ID	USA	
34	0014	07/25/2000		Viewpoint	N45 08 04.1 W109 03 36.5	4342 ft	Fort Union Fm.	Paleocene		SW17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
36	0015	07/25/2000		Field Point	N45 08 31.2 W109 04 07.2	4194 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
37	0016a	07/26/2000	Millenium Notch Section	Field Point	N45 08 41.7 W109 03 49.2	4187 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
38	0016b	07/26/2000	Millenium Notch Section	Field Point	N45 08 45.6 W109 03 50.2	4324 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary	Maestr.-Puercan	SE31 T57N R98W	Garland 7.5'		Park	WY	USA	Old loc 7862
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
43	0020	07/29/2000		Vert. Loc.	N44 59 41.3 W108 56 49.2	4389 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	CWB21 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	Start of stratigraphic traverse
44	0021	07/29/2000	Time Warp Gulch	Field Point	N44 59 30.1 W108 57 14.7	4518 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	C20 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	End of stratigraphic traverse
46	0022	07/29/2000	Sand Coulee Prospect	Viewpoint	N45 00 17.0 W109 01 54.1	4484 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	
	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Stratigraphic traverse
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Base of section
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc. 8029
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft				CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Vehicle parking place
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous	Albian	CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Old loc. 9918; suffixed a,b,c
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'	Chance	Carbon	MT	USA	
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene	(15 ma)	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	Univ. of Idaho Paleobotany loc. P-37
FONTINELLE	0027	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous	Albian	NE6 T24N R115W	Fontinelle Gap 7.5'		Lincoln	WY	USA	
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft						Kemmerer	Lincoln	WY	USA	

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Stage	Legal Description	Quadrangle	City/Town	County	State	Country	Remarks
Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
Puercan	NW1 T56N R99W	Garland 7.5'		Park	WY	USA	Carb Sh. w/ poor fossil plants
Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On traverse across ponded beds
Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	Rusty micrite
Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On ridge crest w/rusty micrite
Puercan	C1 T57N R100W	Elk Basin 7.5'		Park	WY	USA	Old loc. 7659 & 7868
Clarkforkian	NE19 T46N R89W	Castle Gardens 7.5'		Washakie	WY	USA	A Scott Wing locality
Clarkforkian	NE16 T47N R91W	Worland SE 7.5'		Washakie	WY	USA	A Scott Wing locality
Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc 7132
Puercan	NE12 T9S R23E	Hunters Creek 7.5'		Carbon	MT	USA	Old locs. 72135, 7649, 7423
	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
16.5 ma		Green Knob 7.5		Latah	ID	USA	Univ. of Idaho Paleobotany loc. P-6
15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
		Grandmother Mt. 7.5		Shoshone	ID	USA	Virgin Forest
15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33b
15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33a
15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	
	N15 T42N R1E	Clarkia 7.5'		Shoshone	ID	USA	
	SW17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
Tiffanian Ti4	SE7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
Tiffanian Ti4	CS7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
Tiffanian Ti4	SE17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
Maestr.-Puercan	SE31 T57N R98W	Garland 7.5'		Park	WY	USA	Old loc 7862
Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
Tiffanian Ti4	CWB21 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	Start of stratigraphic traverse
Tiffanian Ti4	C20 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	End of stratigraphic traverse
Tiffanian Ti4	SE33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	
Tiffanian Ti4	CS17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Stratigraphic traverse
Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Base of section
Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc. 8029
	CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Vehicle parking place
Albian	CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Old loc. 9918; suffixed a,b,c
Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'	Chance	Carbon	MT	USA	
(15 ma)	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	Univ. of Idaho Paleobotany loc. P-37
Albian	NE6 T24N R115W	Fontinelle Gap 7.5'		Lincoln	WY	USA	
			Kemmerer	Lincoln	WY	USA	

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Waypoint	LJH Loc. #	Date	Name (If Any)	Type of Loc.	Position	Altitude	Stratigraphic Unit	Period/Epoch
7	0001	07/15/2000	Grimy Gulch	Fossil Plant	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene
8	0002	07/15/2000		Carb. Shale	N44 52 15.3 W108 43 58.6	5053 ft	Fort Union Fm. (HC)	Paleocene
9	0003	07/15/2000		Field Point	N44 51 40.8 W108 44 42.0	5008 ft	Fort Union Fm.	Paleocene
10	0004	07/15/2000		Field Point	N44 51 38.9 W108 44 45.2	5027 ft	Fort Union Fm.	Paleocene
11	0005	07/15/2000		Field Point	N44 51 37.9 W108 44 49.3	5072 ft	Fort Union Fm.	Paleocene
12	0007	07/15/2000	Debeya site	Fossil Plant	N44 56 57.5 W108 52 22.2	4619 ft	Fort Union Fm. (HC)	Paleocene
15		07/16/2000	Green Bug Reservoir loc.	Fossil Plant	N43 56 45.0 W107 33 50.3	4963 ft	Fort Union Fm.	Paleocene
16		07/16/2000	Oil Field locality	Fossil Plant	N44 02 53.9 W107 46 02.1	4418 ft	Fort Union Fm.	Paleocene
21	0008	07/17/2000	Chance locality	Fossil Plant	N45 02 00.1 W109 04 53.1	4056 ft	Fort Union Fm.	Paleocene
	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene
24		07/19/2000	William Rember home	House	N47 01 56.8 W116 20 16.1	2818 ft		
	0011b	07/20/2000	Emerald Creek #2	Fossil Plant	N47 01 59.3 W116 20 19.2	2822 ft	Latah Fm.	Miocene
26	0012	07/20/2000	Juliaetta locality	Fossil Plant	N46 31 17.5 W116 44 53.7	963 ft	Latah Fm.	Miocene
27	0011c	07/21/2000	Emerald Creek #3	Fossil Plant	N47 01 58.5 W116 20 18.5	2822 ft	Latah Fm.	Miocene
28		07/21/2000	Hobo Cedar Grove	Botanical	N47 05 09.0 W116 06 46.9	4455 ft		
29	0013	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 30.9 W116 16 28.6	2896 ft	Latah Fm.	Miocene
30	0013b	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.3 W116 16 33.9	2895 ft	Lateh Fm.	Miocene
31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft		
34	0014	07/25/2000		Viewpoint	N45 08 04.1 W109 03 36.5	4342 ft	Fort Union Fm.	Paleocene
36	0015	07/25/2000		Field Point	N45 08 31.2 W109 04 07.2	4194 ft	Fort Union Fm. (CM)	Paleocene
37	0016a	07/26/2000	Millenium Notch Section	Field Point	N45 08 41.7 W109 03 49.2	4187 ft	Fort Union Fm. (CM)	Paleocene
38	0016b	07/26/2000	Millenium Notch Section	Field Point	N45 08 45.6 W109 03 50.2	4324 ft	Fort Union Fm. (CM)	Paleocene
39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene
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	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft		
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene
FONTINELLE	0027	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft		

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[illegible]	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene
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31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft		
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39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene
43	0020	07/29/2000		Vert. Loc.	N44 59 41.3 W108 56 49.2	4389 ft	Fort Union Fm. (BM)	Paleocene
44	0021	07/29/2000	Time Warp Gulch	Field Point	N44 59 30.1 W108 57 14.7	4518 ft	Fort Union Fm. (BM)	Paleocene
46	0022	07/29/2000	Sand Coulee Prospect	Viewpoint	N45 00 17.0 W109 01 54.1	4484 ft	Fort Union Fm. (CM)	Paleocene
	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft		
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene
FONTINELLE	0027.	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft		

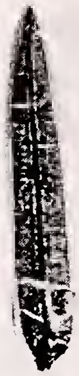
LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

Waypoint	LJH Loc. #	Date	Name (If Any)	Type of Loc.	Position	Altitude	Stratigraphic Unit	Period/Epoch
7	0001	07/15/2000	Grimy Gulch	Fossil Plant	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene
8	0002	07/15/2000		Carb. Shale	N44 52 15.3 W108 43 58.6	5053 ft	Fort Union Fm. (HC)	Paleocene
9	0003	07/15/2000		Field Point	N44 51 40.8 W108 44 42.0	5008 ft	Fort Union Fm.	Paleocene
10	0004	07/15/2000		Field Point	N44 51 38.9 W108 44 45.2	5027 ft	Fort Union Fm.	Paleocene
11	0005	07/15/2000		Field Point	N44 51 37.9 W108 44 49.3	5072 ft	Fort Union Fm.	Paleocene
12	0007	07/15/2000	Debeya site	Fossil Plant	N44 56 57.5 W108 52 22.2	4619 ft	Fort Union Fm. (HC)	Paleocene
15		07/16/2000	Green Bug Reservoir loc.	Fossil Plant	N43 56 45.0 W107 33 50.3	4963 ft	Fort Union Fm.	Paleocene
16		07/16/2000	Oil Field locality	Fossil Plant	N44 02 53.9 W107 46 02.1	4418 ft	Fort Union Fm.	Paleocene
21	0008	07/17/2000	Chance locality	Fossil Plant	N45 02 00.1 W109 04 53.1	4056 ft	Fort Union Fm.	Paleocene
	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene
24		07/19/2000	William Rember home	House	N47 01 56.8 W116 20 16.1	2818 ft		
	0011b	07/20/2000	Emerald Creek #2	Fossil Plant	N47 01 59.3 W116 20 19.2	2822 ft	Latah Fm.	Miocene
26	0012	07/20/2000	Juliaetta locality	Fossil Plant	N46 31 17.5 W116 44 53.7	963 ft	Latah Fm.	Miocene
27	0011c	07/21/2000	Emerald Creek #3	Fossil Plant	N47 01 58.5 W116 20 18.5	2822 ft	Latah Fm.	Miocene
28		07/21/2000	Hobo Cedar Grove	Botanical	N47 05 09.0 W116 06 46.9	4455 ft		
29	0013	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 30.9 W116 16 28.6	2896 ft	Latah Fm.	Miocene
30	0013b	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.3 W116 16 33.9	2895 ft	Latah Fm.	Miocene
31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft		
34	0014	07/25/2000		Viewpoint	N45 08 04.1 W109 03 36.5	4342 ft	Fort Union Fm.	Paleocene
36	0015	07/25/2000		Field Point	N45 08 31.2 W109 04 07.2	4194 ft	Fort Union Fm. (CM)	Paleocene
37	0016a	07/26/2000	Millenium Notch Section	Field Point	N45 08 41.7 W109 03 49.2	4187 ft	Fort Union Fm. (CM)	Paleocene
38	0016b	07/26/2000	Millenium Notch Section	Field Point	N45 08 45.6 W109 03 50.2	4324 ft	Fort Union Fm. (CM)	Paleocene
39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene
43	0020	07/29/2000		Vert. Loc.	N44 59 41.3 W108 56 49.2	4389 ft	Fort Union Fm. (BM)	Paleocene
44	0021	07/29/2000	Time Warp Gulch	Field Point	N44 59 30.1 W108 57 14.7	4518 ft	Fort Union Fm. (BM)	Paleocene
46	0022	07/29/2000	Sand Coulee Prospect	Viewpoint	N45 00 17.0 W109 01 54.1	4484 ft	Fort Union Fm. (CM)	Paleocene
	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft		
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene
FONTINELLE	0027	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft		

SERIES		GROUP	SUB-GROUP	FORMATION	MEMBER	K-Ar AGE (m.y)	MAGNETIC POLARITY
MIOCENE	UPPER	COLUMBIA RIVER BASALT GROUP	YAKIMA BASALT SUBGROUP	SADDLE MOUNTAINS BASALT	LOWER MONUMENTAL MEMBER	6	N
					EROSIONAL UNCONFORMITY		
					ICE HARBOR MEMBER Basalt of Goose Island Basalt of Martindale Basalt of Basin City	8.5	N R N
					EROSIONAL UNCONFORMITY		
					BUFORD MEMBER		R
	MIDDLE				ELEPHANT MOUNTAIN MEMBER	10.5	R, T
					EROSIONAL UNCONFORMITY		
					POMONA MEMBER	12	R
					EROSIONAL UNCONFORMITY		
					ESQUATZEL MEMBER		N
					EROSIONAL UNCONFORMITY		
					WEISSENFELS RIDGE MEMBER Basalt of Slippery Creek Basalt of Tenmile Creek Basalt of Lewiston Orchards Basalt of Cloverland		N N N N
					ASOTIN MEMBER Basalt of Huntzinger	13	N
					LOCAL EROSIONAL UNCONFORMITY		
					WILBUR CREEK MEMBER Basalt of Lapwai Basalt of Wahluke		N N
					UMATILLA MEMBER Basalt of Sillusi Basalt of Umatilla		N N
					LOCAL EROSIONAL UNCONFORMITY		
				WANAPUM BASALT	PRIEST RAPIDS MEMBER Basalt of Lolo ← Basalt of Rosalla	14.5 15.0	R R ← EMERALD CREEK
					ROZA MEMBER		T, R
					FRENCHMAN SPRINGS MEMBER Basalt of Lyons Ferry Basalt of Sentinel Gap Basalt of Sand Hollow Basalt of Silver Falls Basalt of Ginkgo Basalt of Palouse Falls	15.3 15.5	N N N N, E E E
					ECKLER MOUNTAIN MEMBER Basalt of Shumaker Creek Basalt of Dodge Basalt of Robinette Mountain		N N N
	LOWER			GRANDE RONDE BASALT	(See Mangan and others, 1986; Reidel, 1983 for individual flows)	15.6-16.5	N_2
							R_2
				PICTURE GORGE BASALT			N_1
							R_1 } MUSSELSHELL ← JULIETTA
				IMNAHA BASALT	(See Hooper and others, 1984)	16.5-17.0	R_1 T N_0 R_0

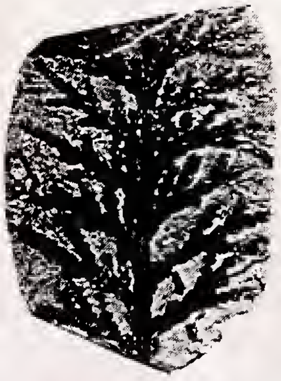
Figure 2. Stratigraphy of the Columbia River Basalt Group. Modified from Swanson and others (1979) by Reidel and Fecht (1987). Natural remanent magnetization indicated by: N=normal, R=reversed, T=transitional, and E=excursional.

I. Conifers

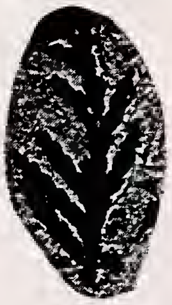


Amentotaxus californica
(Chinese Yew)

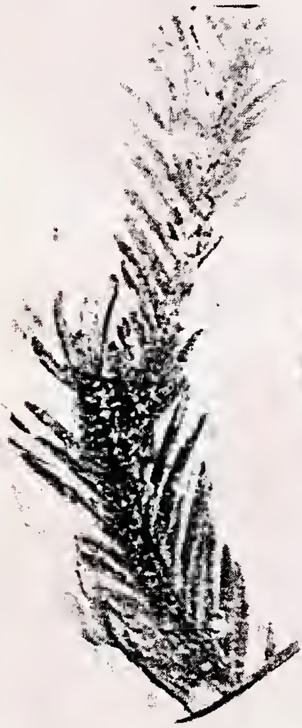
Calocedrus masoni
(Incense Cedar)

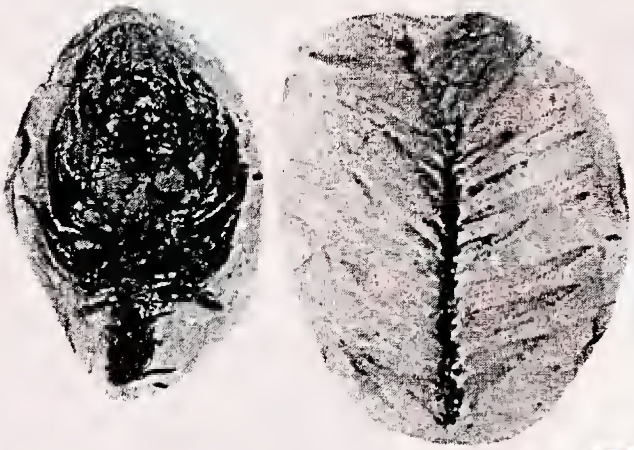


Chamaecyparis linguaefolia
(Port Orford Cedar)

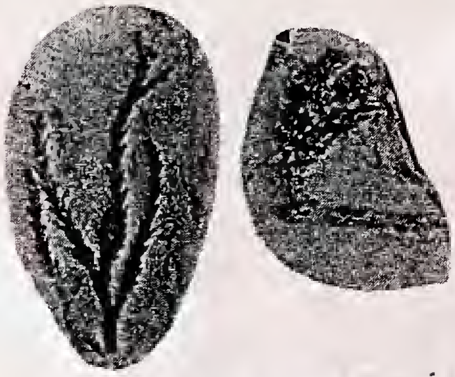


Thuja grasilus
(Red Cedar)

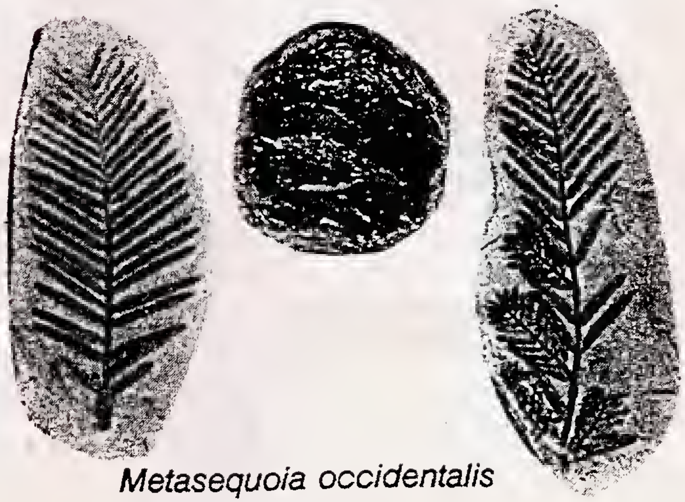




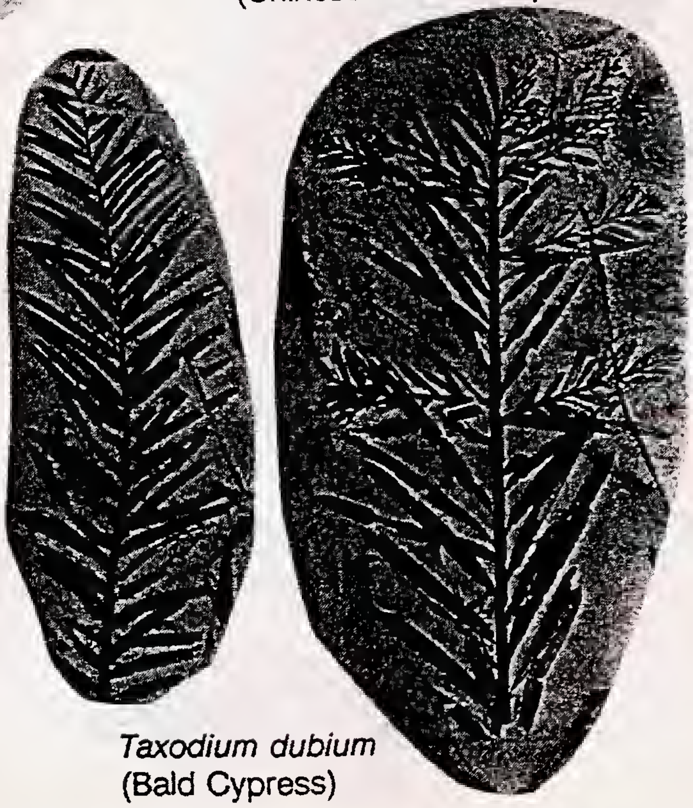
Cunninghamia chaneyi
(Chinese Fir)



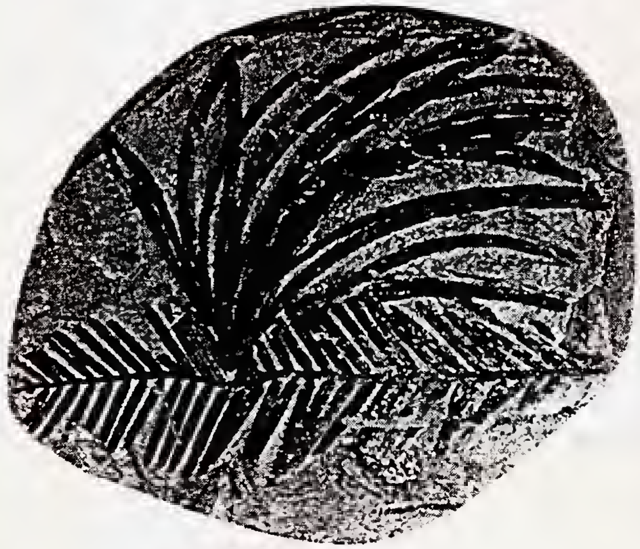
Glyptostrobus oregonensis
(Chinese Water Pine)

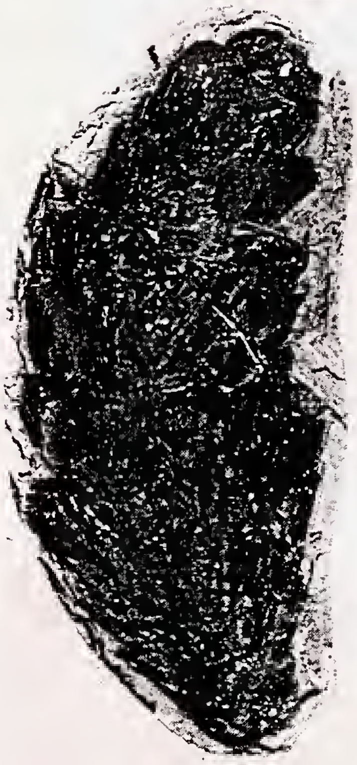


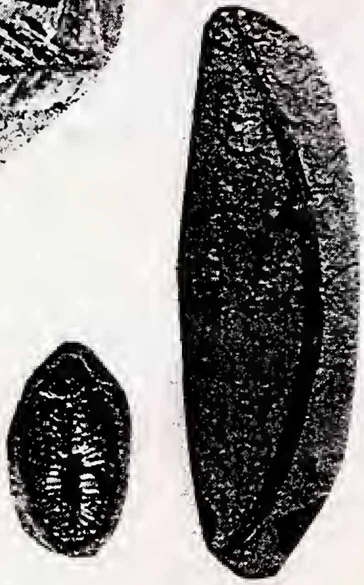
Metasequoia occidentalis
(Dawn Redwood)



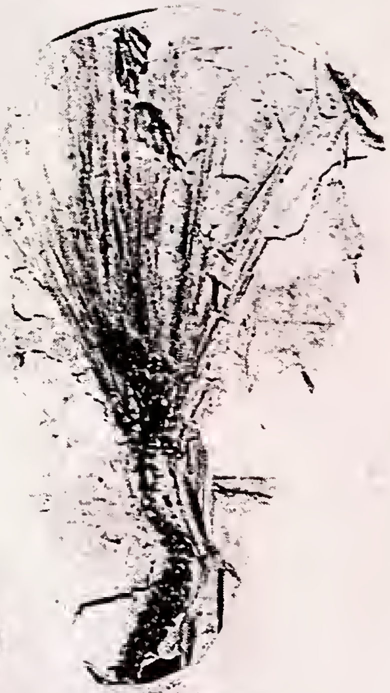
Taxodium dubium
(Bald Cypress)



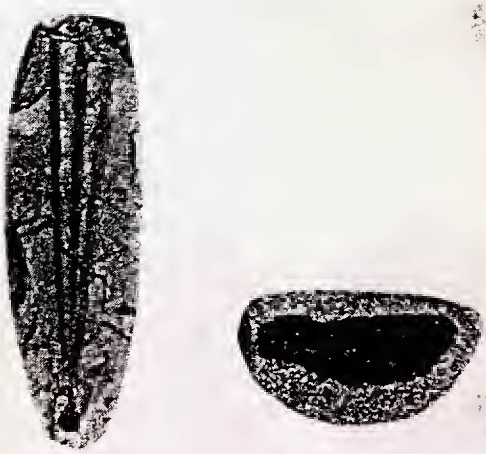




Abies chaneyi
(Fir)

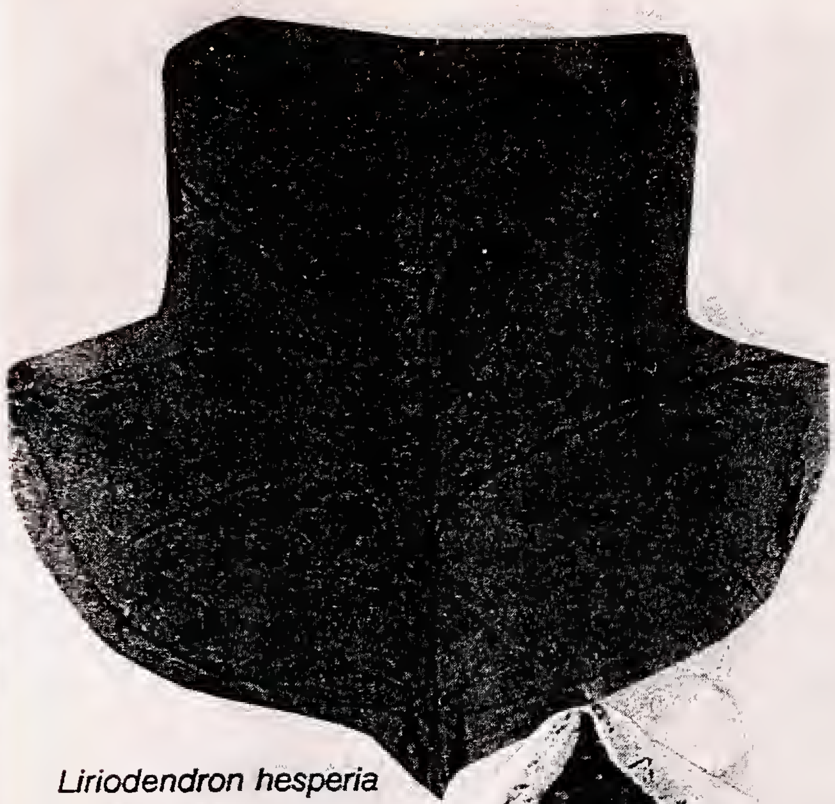


Pinus harneyana
(long three needle pine)



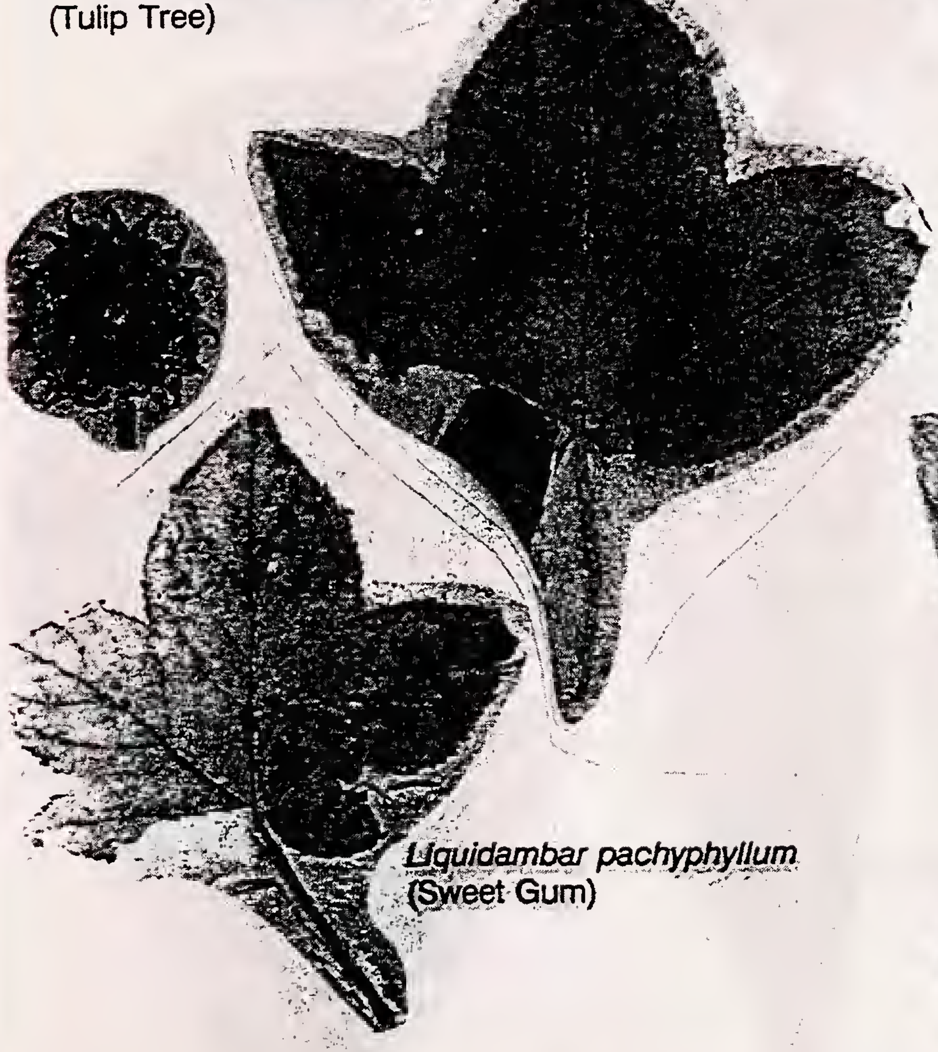
Pinus tiptonia
(short three needle pine)

II. Lobed Leaves

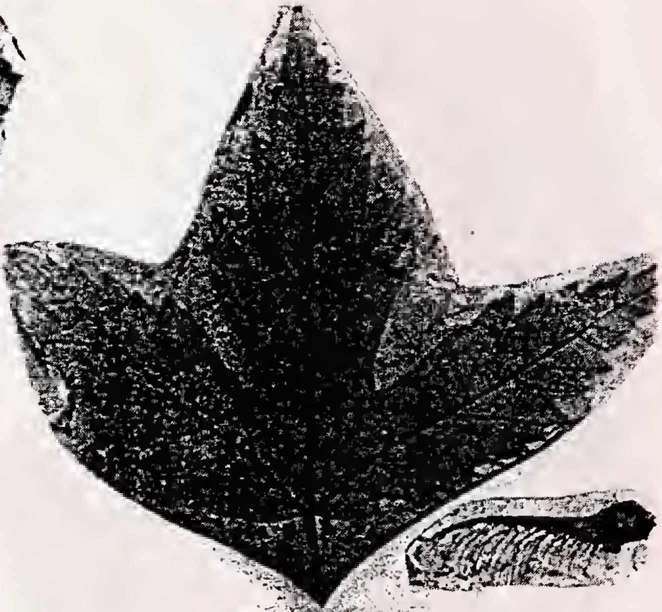


Liriodendron hesperia
(Tulip Tree)

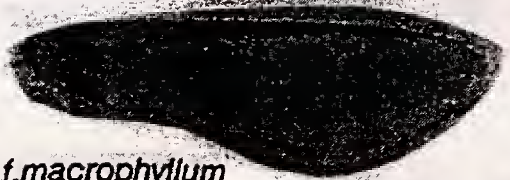
Platanus dissecta
(Sycamore)



Liquidambar pachyphyllum
(Sweet Gum)

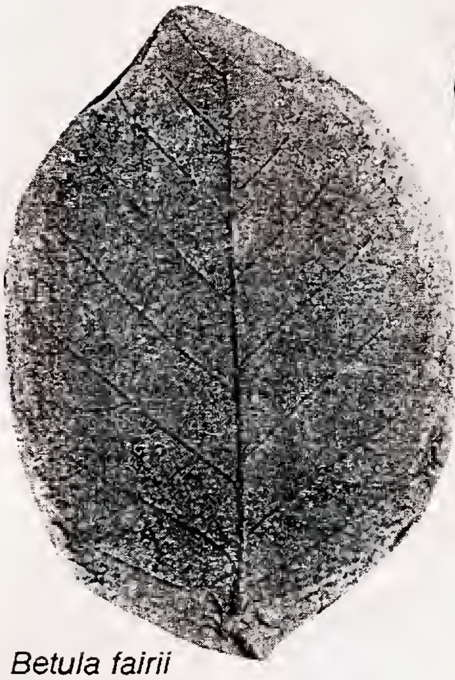


Acer bendirei
(Maple)



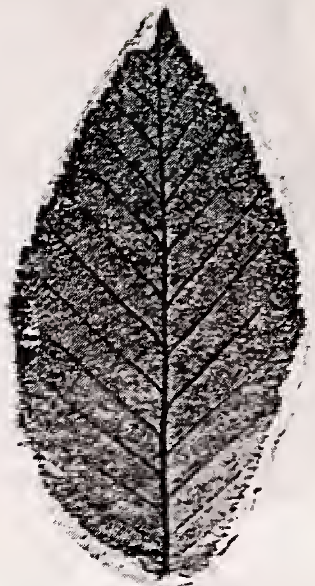
Acer c.f.macrophyllum
(Maple)

III. Toothed Edged Leaves

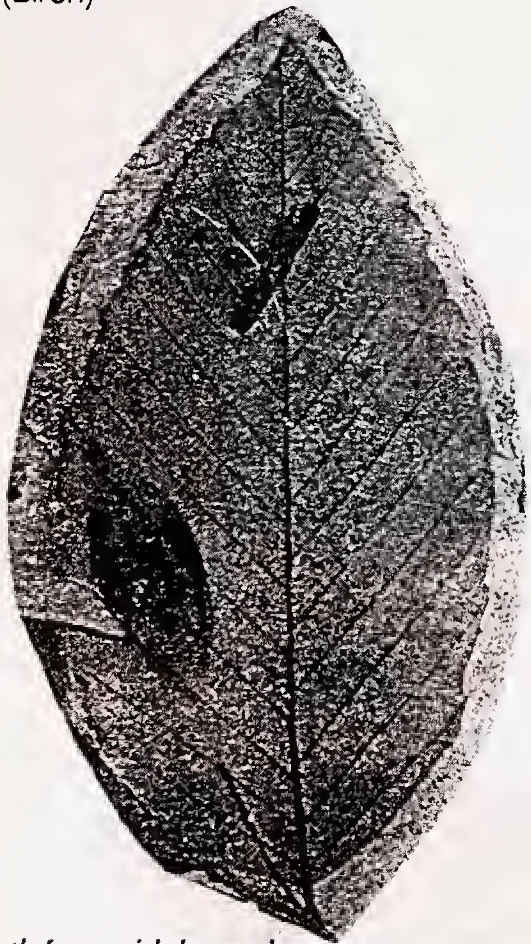


Betula fairii
(Birch)

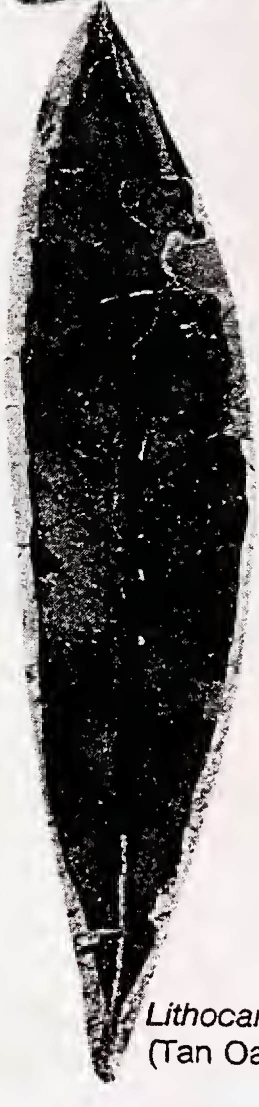
Betula vera
(Birch)



Ostrya oregonia
(Hop hornbeam)

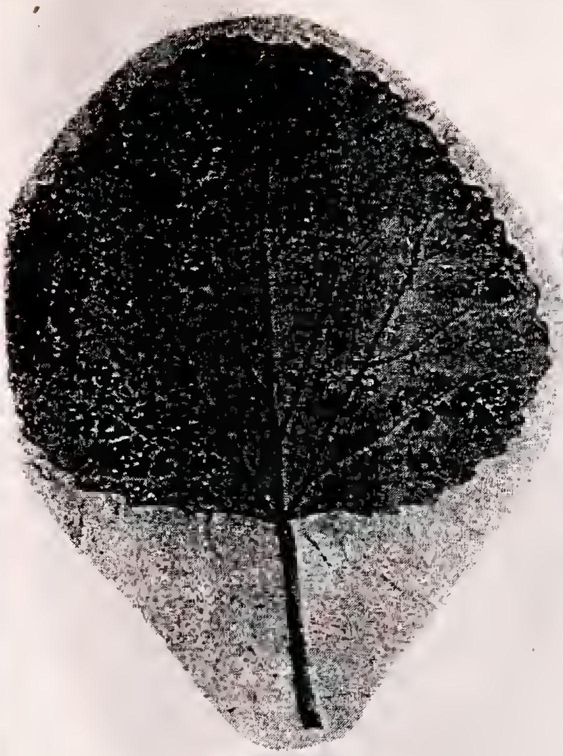


Pseudofagus idahoensis
(False Beech)

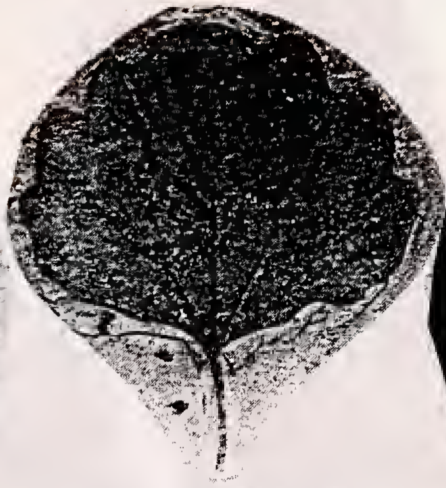


Lithocarpus simulata
(Tan Oak)

Castanea spokanensis
(Chestnut)



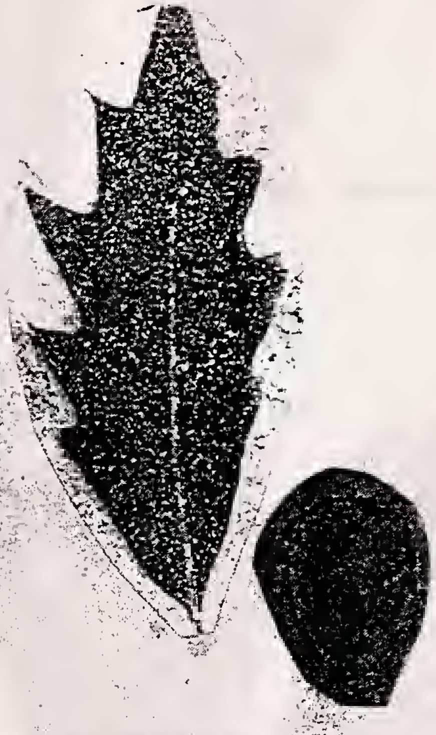
Populus
(Poplar)



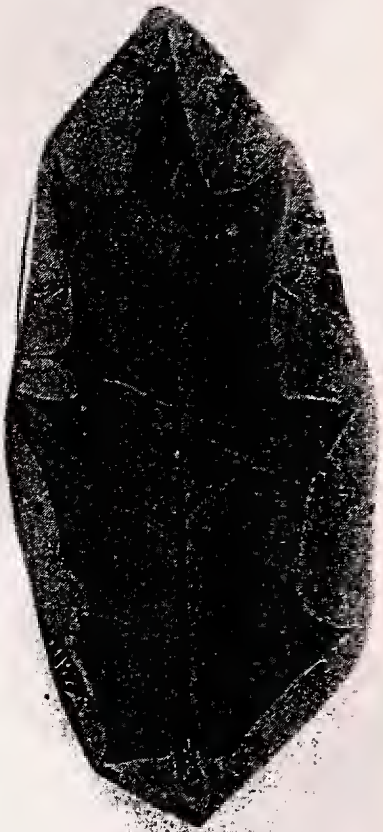
Cocculus heteromorpha
(Carolina Moonseed)

Cercidiphyllum crenatum
(Katsura Tree)

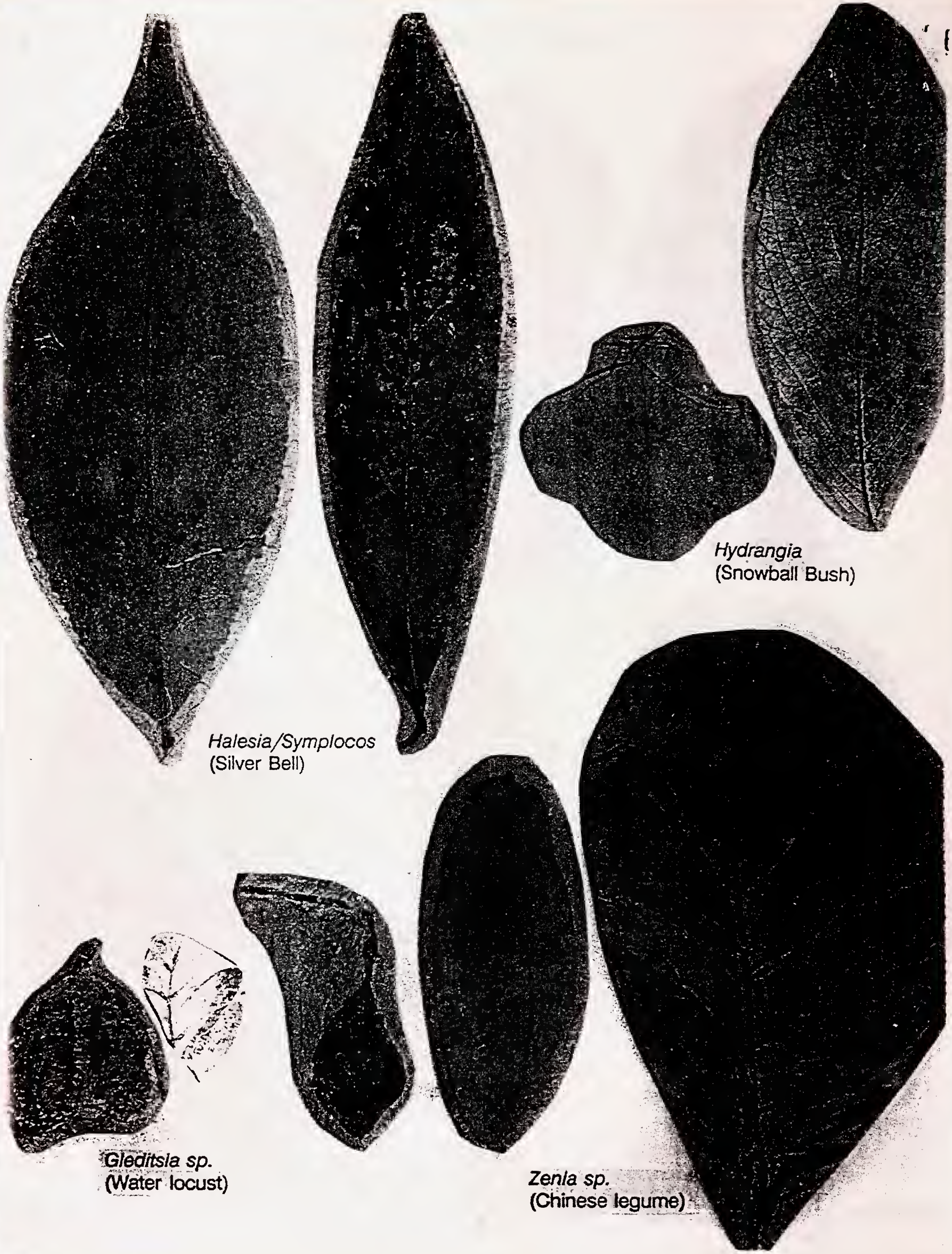
Nyssa hesperia
(Tupelo)



Quercus payettensis
(Oak)



Ilex sinuata
(Holly)



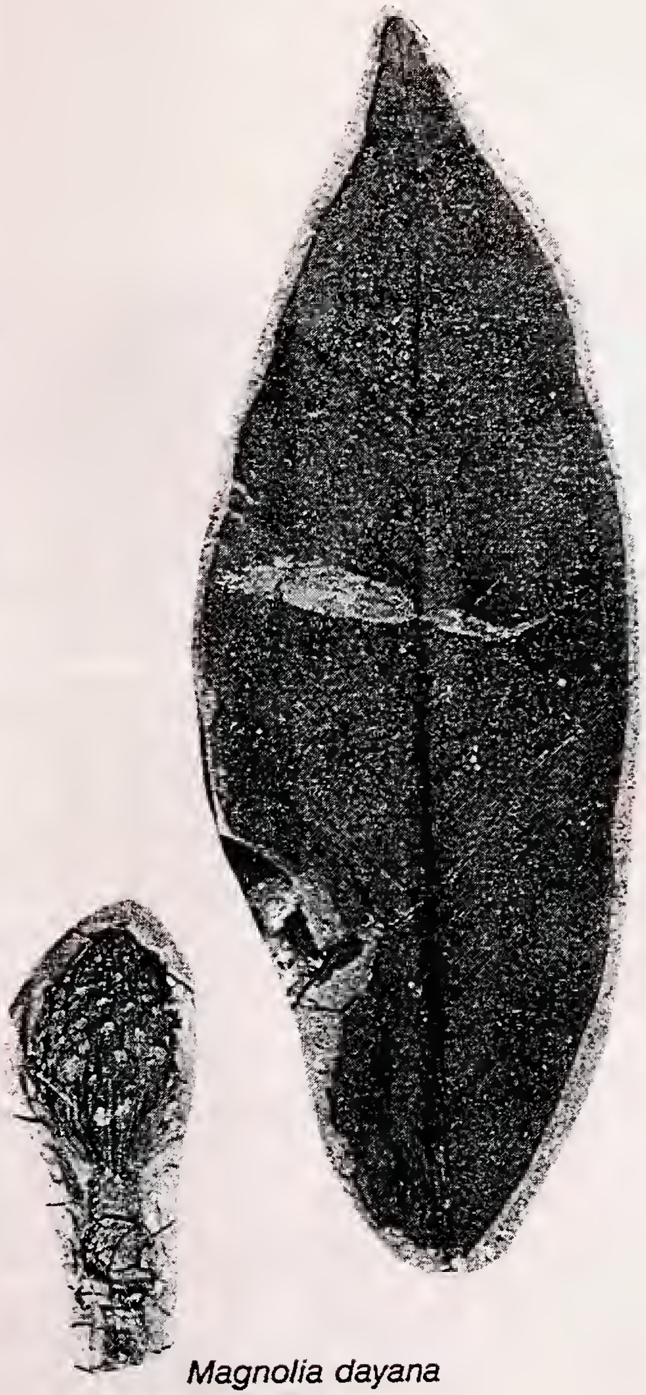
Hydrangia
(Snowball Bush)

Halesia/Symplocos
(Silver Bell)

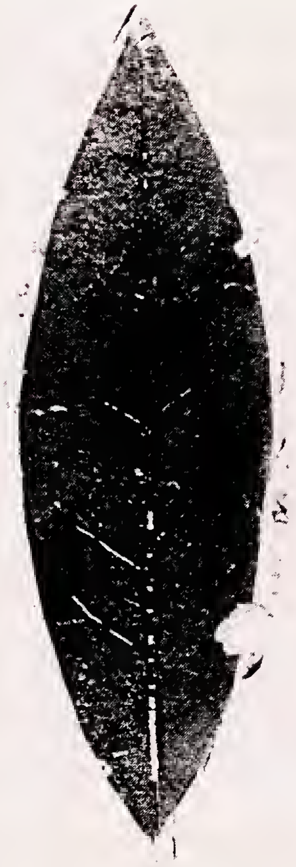
Gleditsia sp.
(Water locust)

Zenia sp.
(Chinese legume)

IV. Smoothed Edged Leaves



Magnolia dayana
(Magnolia)



Persea pseudocarolinesis
(Avocado, Sweet Bay)

LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

LEO J. HICKEY - LOCALITY LIST FOR THE SUMMER OF 2000

Waypoint	LJH Loc. #	Date	Name (If Any)	Type of Loc.	Position	Altitude	Stratigraphic Unit	Period/Epoch	Stage	Legal Description	Quadrangle	City/Town	County	State	Country	Remarks
7	0001	07/15/2000	Grimy Gulch	Fossil Plant	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
8	0002	07/15/2000		Carb. Shale	N44 52 15.3 W108 43 58.6	5053 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NW1 T56N R99W	Garland 7.5'		Park	WY	USA	Carb Sh. w/ poor fossil plants
9	0003	07/15/2000		Field Point	N44 51 40.8 W108 44 42.0	5008 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On traverse across ponded beds
10	0004	07/15/2000		Field Point	N44 51 38.9 W108 44 45.2	5027 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	Rusty micrite
11	0005	07/15/2000		Field Point	N44 51 37.9 W108 44 49.3	5072 ft	Fort Union Fm.	Paleocene	Tiffanian	C2 T56N R99W	Garland 7.5'		Park	WY	USA	On ridge crest w/rusty micrite
12	0007	07/15/2000	Debeya site	Fossil Plant	N44 56 57.5 W108 52 22.2	4619 ft	Fort Union Fm. (HC)	Paleocene	Puercan	C1 T57N R100W	Elk Basin 7.5'		Park	WY	USA	Old loc. 7659 & 7868
15		07/16/2000	Green Bug Reservoir loc.	Fossil Plant	N43 56 45.0 W107 33 50.3	4963 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE19 T46N R89W	Castle Gardens 7.5'		Washakie	WY	USA	A Scott Wing locality
16		07/16/2000	Oil Field locality	Fossil Plant	N44 02 53.9 W107 46 02.1	4418 ft	Fort Union Fm.	Paleocene	Clarkforkian	NE16 T47N R91W	Worland SE 7.5'		Washakie	WY	USA	A Scott Wing locality
21	0008	07/17/2000	Chance locality	Fossil Plant	N45 02 00.1 W109 04 53.1	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc 7132
	0009	07/17/2000	Ginkgo locality	Fossil Plant	N45 04 18.3 W108 51 00.4	4520 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE12 T9S R23E	Hunters Creek 7.5'		Carbon	MT	USA	Old locs. 72135, 7649, 7423
24		07/19/2000	William Rember home	House	N47 01 56.8 W116 20 16.1	2818 ft				NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
	0011b	07/20/2000	Emerald Creek #2	Fossil Plant	N47 01 59.3 W116 20 19.2	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
26	0012	07/20/2000	Juliaetta locality	Fossil Plant	N46 31 17.5 W116 44 53.7	963 ft	Latah Fm.	Miocene	16.5 ma		Green Knob 7.5		Latah	ID	USA	Univ. of Idaho Paleobotany loc. P-6
27	0011c	07/21/2000	Emerald Creek #3	Fossil Plant	N47 01 58.5 W116 20 18.5	2822 ft	Latah Fm.	Miocene	15 ma	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	
28		07/21/2000	Hobo Cedar Grove	Botanical	N47 05 09.0 W116 06 46.9	4455 ft					Grandmother Mt. 7.5'		Shoshone	ID	USA	Virgin Forest
29	0013	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 30.9 W116 16 28.6	2896 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33b
30	0013b	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.3 W116 16 33.9	2895 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	Univ. of Idaho Paleobotany loc. P-33a
31	0013c	07/22/2000	Fossil Bowl	Fossil Plant	N46 59 29.4 W116 16 33.8	2889 ft	Latah Fm.	Miocene	15 ma	C13 T42N R1E	Clarkia 7.5'	Clarkia	Shoshone	ID	USA	
32		07/22/2000	Bechtel Butte	Waypoint	N46 59 28.8 W116 19 07.1	4615 ft				N15 T42N R1E	Clarkia 7.5'		Shoshone	ID	USA	
34	0014	07/25/2000		Viewpoint	N45 08 04.1 W109 03 36.5	4342 ft	Fort Union Fm.	Paleocene		SW17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
36	0015	07/25/2000		Field Point	N45 08 31.2 W109 04 07.2	4194 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	
37	0016a	07/26/2000	Millenium Notch Section	Field Point	N45 08 41.7 W109 03 49.2	4187 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
38	0016b	07/26/2000	Millenium Notch Section	Field Point	N45 08 45.6 W109 03 50.2	4324 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
39	0016c	07/27/2000	Millenium Notch Section	Field Point	N45 08 33.2 W109 04 07.4	4152 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
40	0016d	07/27/2000	Millenium Notch Section	Field Point	N45 08 39.0 W109 04 13.5	4348 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	NE18 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Top of segment
41	0016e	07/27/2000	Millenium Notch Section	Field Point	N45 08 47.1 W109 04 32.0	4331 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS7 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Start of segment
42	0017a	07/28/2000	Westward Ho! Section	Field Point	N45 08 06.8 W109 02 51.9	4160 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Base of section
	0018	07/29/2000		Photo Point		5050 ft	Ft. Union/Hell Cr. Bdy.	Cret.-Tertiary	Maestr.-Puercan	SE31 T57N R98W	Garland 7.5'		Park	WY	USA	Old loc 7862
	0019	07/29/2000	Grimy Gulch	Photo Point	N44 52 19.2 W108 44 08.4	5036 ft	Fort Union Fm. (HC)	Paleocene	Puercan	NE2 T56N R99W	Garland 7.5'		Park	WY	USA	Old loc. 7861
43	0020	07/29/2000		Vert. Loc.	N44 59 41.3 W108 56 49.2	4389 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	CWB21 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	Start of stratigraphic traverse
44	0021	07/29/2000	Time Warp Gulch	Field Point	N44 59 30.1 W108 57 14.7	4518 ft	Fort Union Fm. (BM)	Paleocene	Tiffanian Ti4	C20 T58N R100W	Elk Basin NW 7.5'		Park	WY	USA	End of stratigraphic traverse
46	0022	07/29/2000	Sand Coulee Prospect	Viewpoint	N45 00 17.0 W109 01 54.1	4484 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SE33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	
	0023	07/29/2000	Westward Ho! Extended	Field Point		4300 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	CS17 T8S R22E	Belfry 7.5'		Carbon	MT	USA	Stratigraphic traverse
47	0024	07/30/2000	Chance Section	Field Point	N45 00 29.2 W109 02 05.4	4211 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Base of section
48	0025	07/30/2000	Baseball Hill	Fossil Plant	N45 00 21.9 W109 02 33.5	4290 ft	Fort Union Fm. (CM)	Paleocene	Tiffanian Ti4	SW33 T9S R22E	Hollenbeck Draw 7.5'		Carbon	MT	USA	Old loc. 8029
53		08/01/2000		Waypoint	N42 05 59.5 W110 30 24.3	7156 ft				CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Vehicle parking place
ASPEN	0026	08/01/2000	Aspen Shale Locality	Fossil Plant	N42 05 59.3 W110 30 07.4	7100 ft	Aspen Shale	Cretaceous	Albian	CN6 T24N R115W	South Fork Mountain 7.5'		Lincoln	WY	USA	Old loc. 9918; suffixed a,b,c
CHANCE	0008	07/24/2000	Chance locality	Strat. Section	N45 02 00.1 W109 04 53.0	4056 ft	Fort Union Fm.	Paleocene	Clarkforkian 1	SW19 T9S R22E	Hollenbeck Draw 7.5'	Chance	Carbon	MT	USA	
EMERALD1	0011a	07/20/2000	Emerald Creek #1	Fossil Plant	N47 01 59.6 W116 20 19.6	2865 ft	Latah Fm.	Miocene	(15 ma)	NE33 T43N R1E	Clarkia 7.5'	Fernwood	Benewah	ID	USA	Univ. of Idaho Paleobotany loc. P-37
FONTINELLE	0027	08/02/2000		Prospect	N42 05 40.5 W110 29 52.0	7530 ft	Aspen Shale	Cretaceous	Albian	NE6 T24N R115W	Fontinelle Gap 7.5'		Lincoln	WY	USA	
KEMMERER		07/31/2000	Town of Kemmerer	Waypoint	N44 52 18.9 W108 44 08.2	7007 ft						Kemmerer	Lincoln	WY	USA	

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